

Attorney's Docket No. 005513-P003
Confirmation No.: 9666

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:

Ulrich Martin Graf

Application No.: 10/033,327

Filed: November 2, 2001

For: RADIOTHERAPY APPARATUS
EQUIPPED WITH AN ARTICULABLE
GANTRY FOR POSITIONING AN
IMAGING UNIT

Examiner: Not yet assigned

Art Unit: 2882

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On August 6, 2002

By:

Dianne Neathery
Dianne Neathery

Box Non-Fee Amendment
Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT TO APPLICATION

Sir:

Prior to the examination of the above-referenced application, the Applicant respectfully request the Examiner to enter the following amendment:

IN THE SPECIFICATIONS:

On page 12, please replace paragraph 41 with the following:

AI
[0041] A multiple-energy imaging unit can display results from radiation from either a higher energy source, such as, for example, as used in therapeutic treatment or from radiation by a lower energy source such as, for example, as used in diagnostic purposes. A-Si imagers convert the optical signal from the overlaying phosphor, which acts together with a thin metal plate as an x-ray detector, to charge and store that charge on the pixel capacitance. To form an image, the charge on the pixels is read out line by line. Multiple-energy a-Si imagers may use a conversion screen design within the imager for multiple energy data unit collection

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end


from the two radiation sources. This specialized design can result in different spectral efficiency detection. One design is to use two or more conversion screen/a-Si detector layers, one on top of the other with a combined filter/grid design. Each screen layer will produce an image data unit for a particular radiation energy. One embodiment of a multiple-energy imaging unit, as discussed in US patent application No. 10/013,199, titled "X-Ray Image Acquisition Apparatus", filed November 2, 2001, and assigned with this application to a common owner at the date of filing, hereby incorporated by reference, may be used. Alternatively other imaging units may be used.

Applicant believes there is no fee; however, if there are any additional fees or charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: August 6, 2002



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MARKED-UP VERSION SHOWING CHANGES

[0041] A multiple-energy imaging unit can display results from radiation from either a higher energy source, such as, for example, as used in therapeutic treatment or from radiation by a lower energy source such as, for example, as used in diagnostic purposes. A-Si imagers convert the optical signal from the overlaying phosphor, which acts together with a thin metal plate as an x-ray detector, to charge and store that charge on the pixel capacitance. To form an image, the charge on the pixels is read out line by line. Multiple-energy a-Si imagers may use a conversion screen design within the imager for multiple energy data unit collection from the two radiation sources. This specialized design can result in different spectral efficiency detection. One design is to use two or more conversion screen/a-Si detector layers, one on top of the other with a combined filter/grid design. Each screen layer will produce an image data unit for a particular radiation energy. One embodiment of a multiple-energy imaging unit, as discussed in US patent application No. 10/013,199, titled "X-Ray Image Acquisition Apparatus", filed November 2, 2001, and assigned with this application to a common owner at the date of filing, hereby incorporated by reference, may be used. Alternatively other imaging units may be used.